

Review Comments

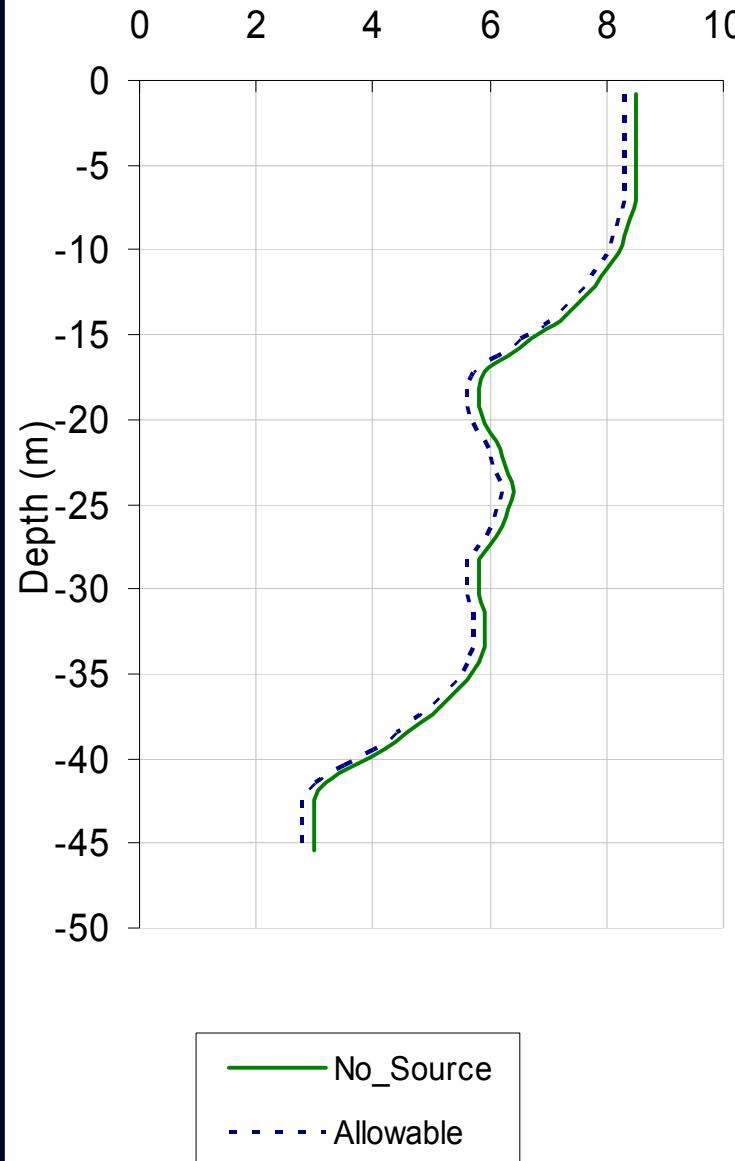
- Dissolved Oxygen Criteria
- Use Attainability Analysis
- Dissolved Oxygen and Algal Blooms
- Model Calibration
 - CBOD_U, ratios, k
 - SOD
- Critical Conditions
- Margin of Safety
- Draft Report and Model Scenarios

Dissolved Oxygen Criteria

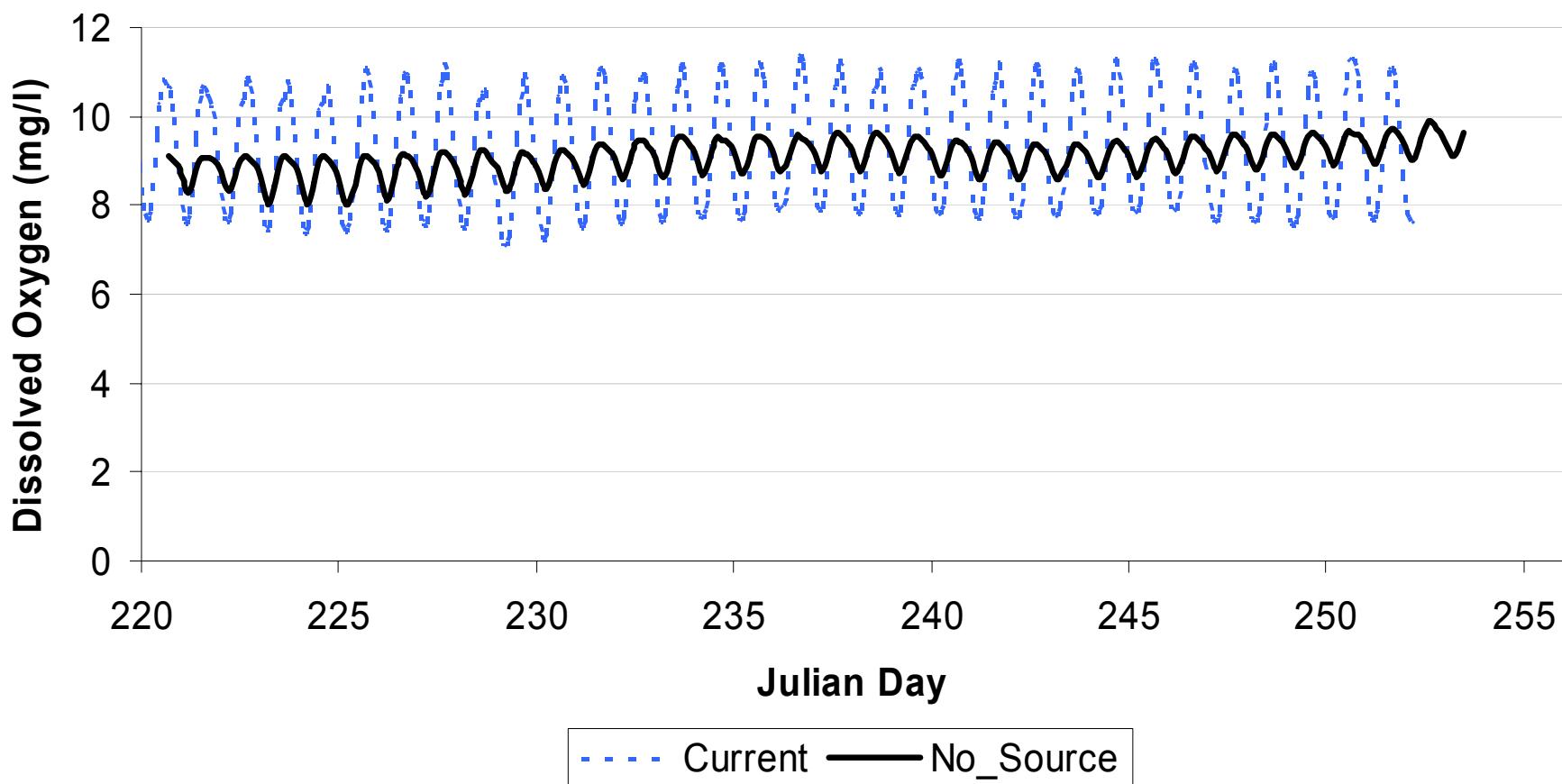
- LAKE SPOKANE (LONG LAKE):
 - No Measurable Decrease from Natural Conditions
- SPOKANE RIVER:
 - Shall Exceed 8.0 mg/L

LL0

Dissolved Oxygen (mg/L)

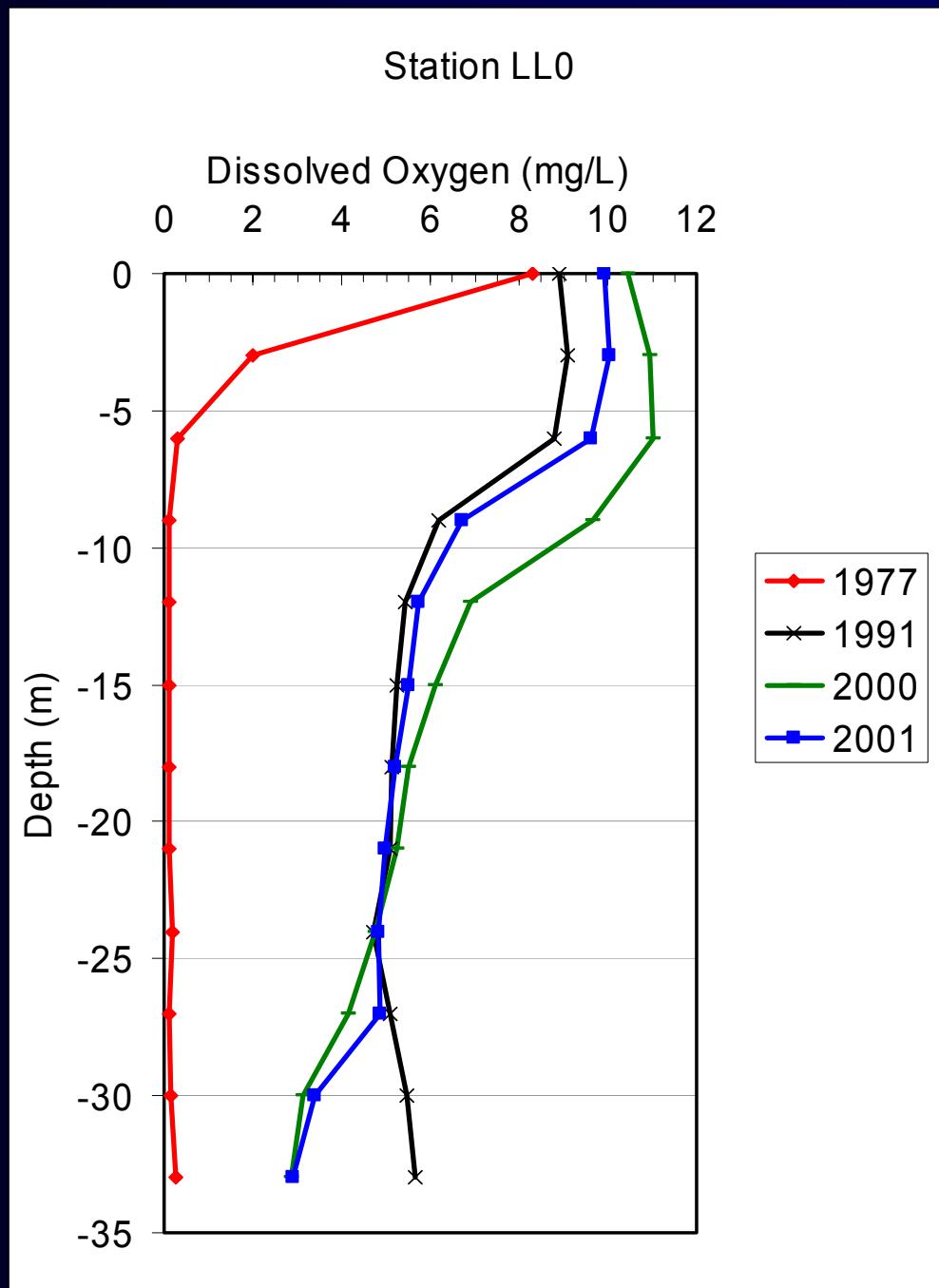


Segment 133



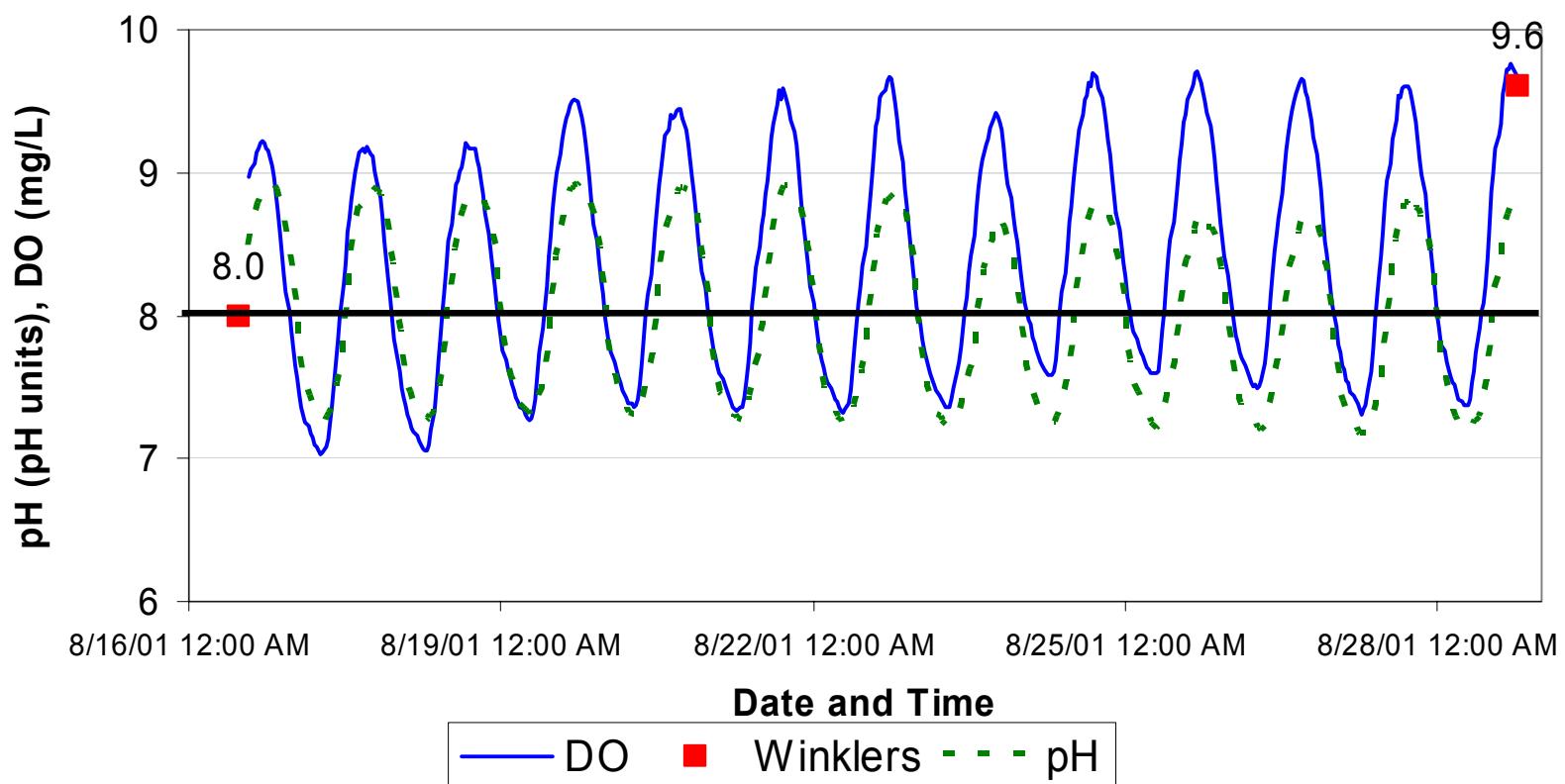
Dissolved Oxygen and Algae

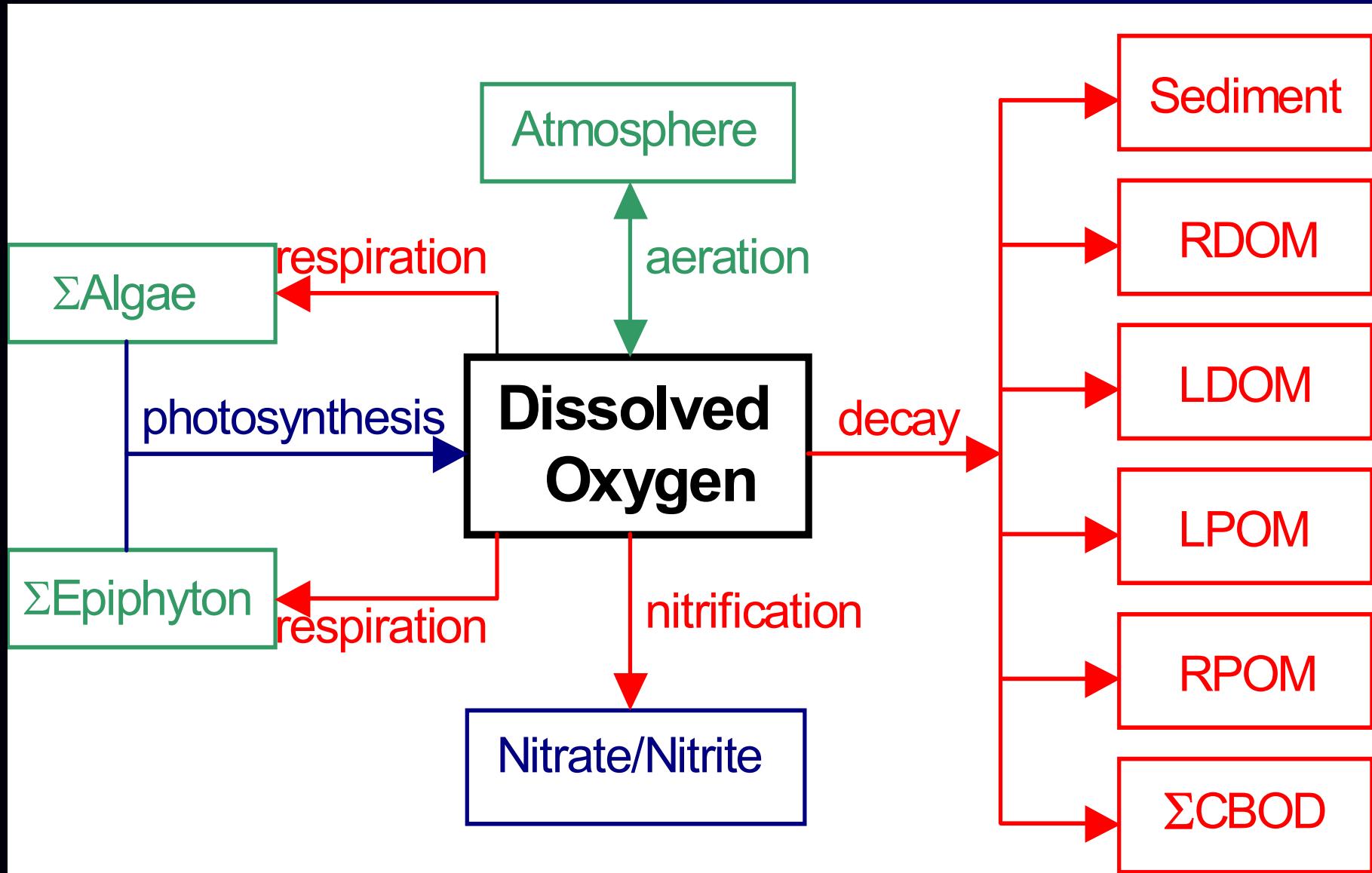




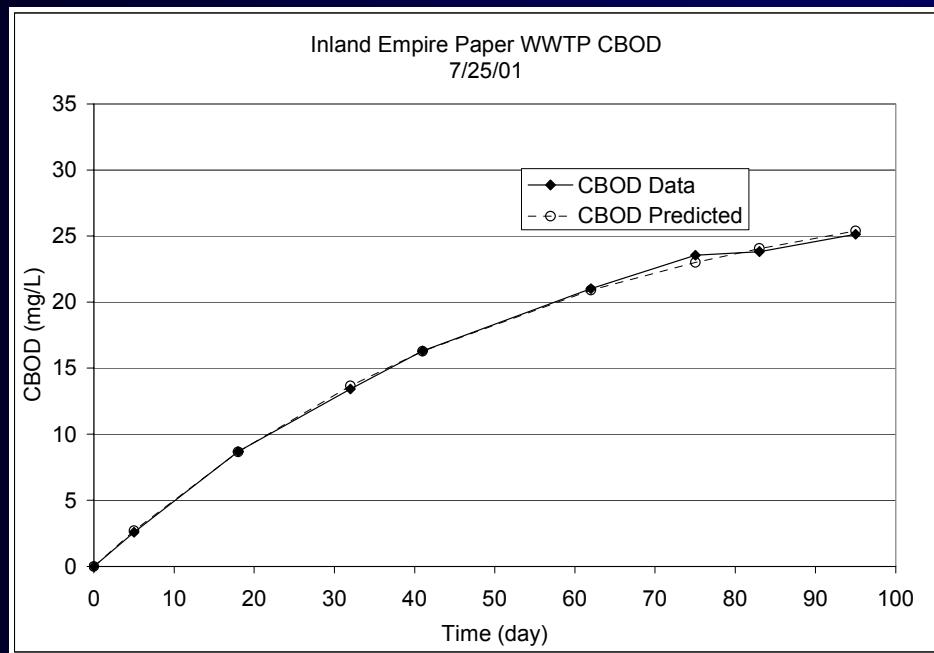
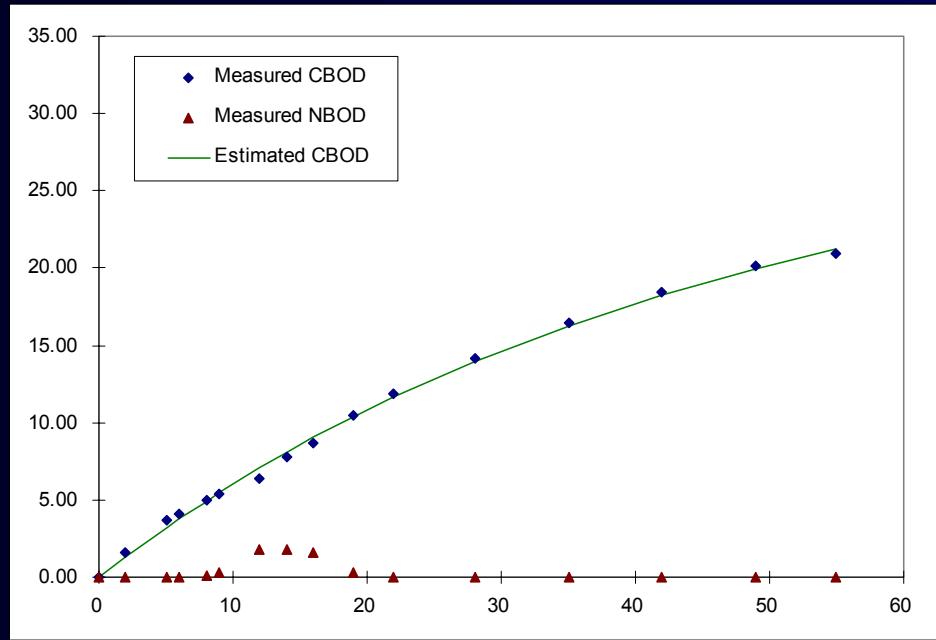


STATELINE (RM 96.0)





Ultimate CBOD

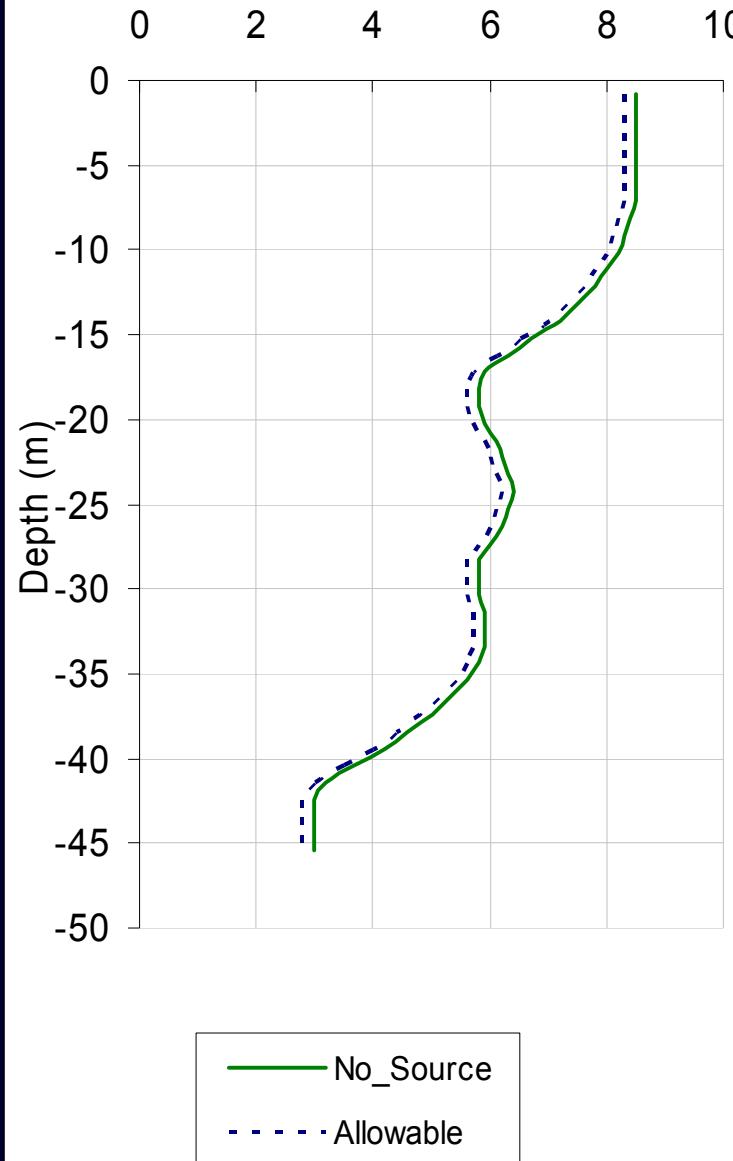


	Ecology CBODU:- BOD5 (ratio)	Ecology <i>k</i> (day ⁻¹)	WSU CBODU:- BOD5 (ratio)	WSU <i>k</i> (day ⁻¹)	Avg. CBODU: BOD5 (ratio)	Avg. <i>k</i> (day ⁻¹)
Ambient	3.36	0.0704	3.64	0.0590	3.54	0.0660
Spokane POTW	2.82	0.0880	3.46	0.0531	3.08	0.0736
Liberty Lake POTW	5.27	0.0418	4.69	0.0518	4.98	0.0456
Kaiser IWTP	2.71	0.1302	1.96	0.1232	2.22	0.1275
IEPC	13.01	0.0175	9.68	0.0204	11.72	0.0186
IEPC (1995)			6.36	0.0469		

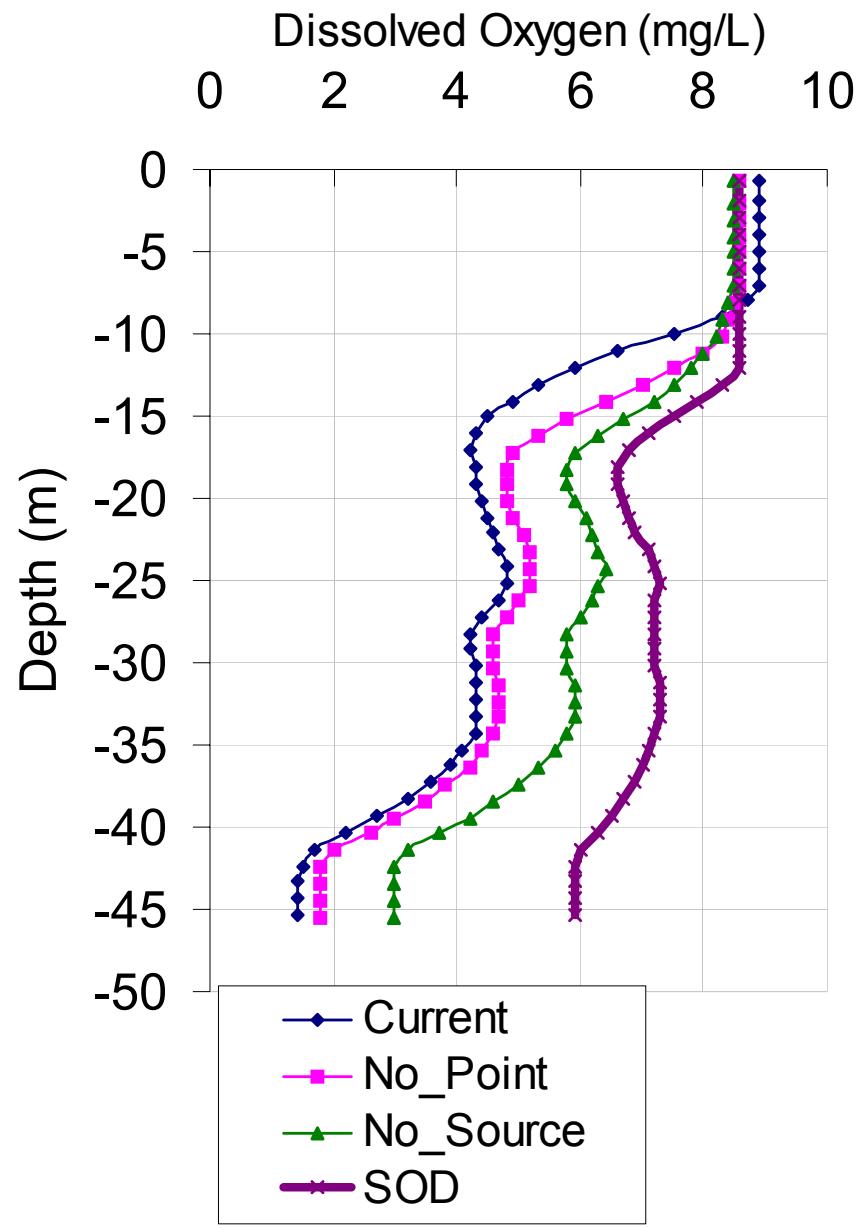
SOD

LL0

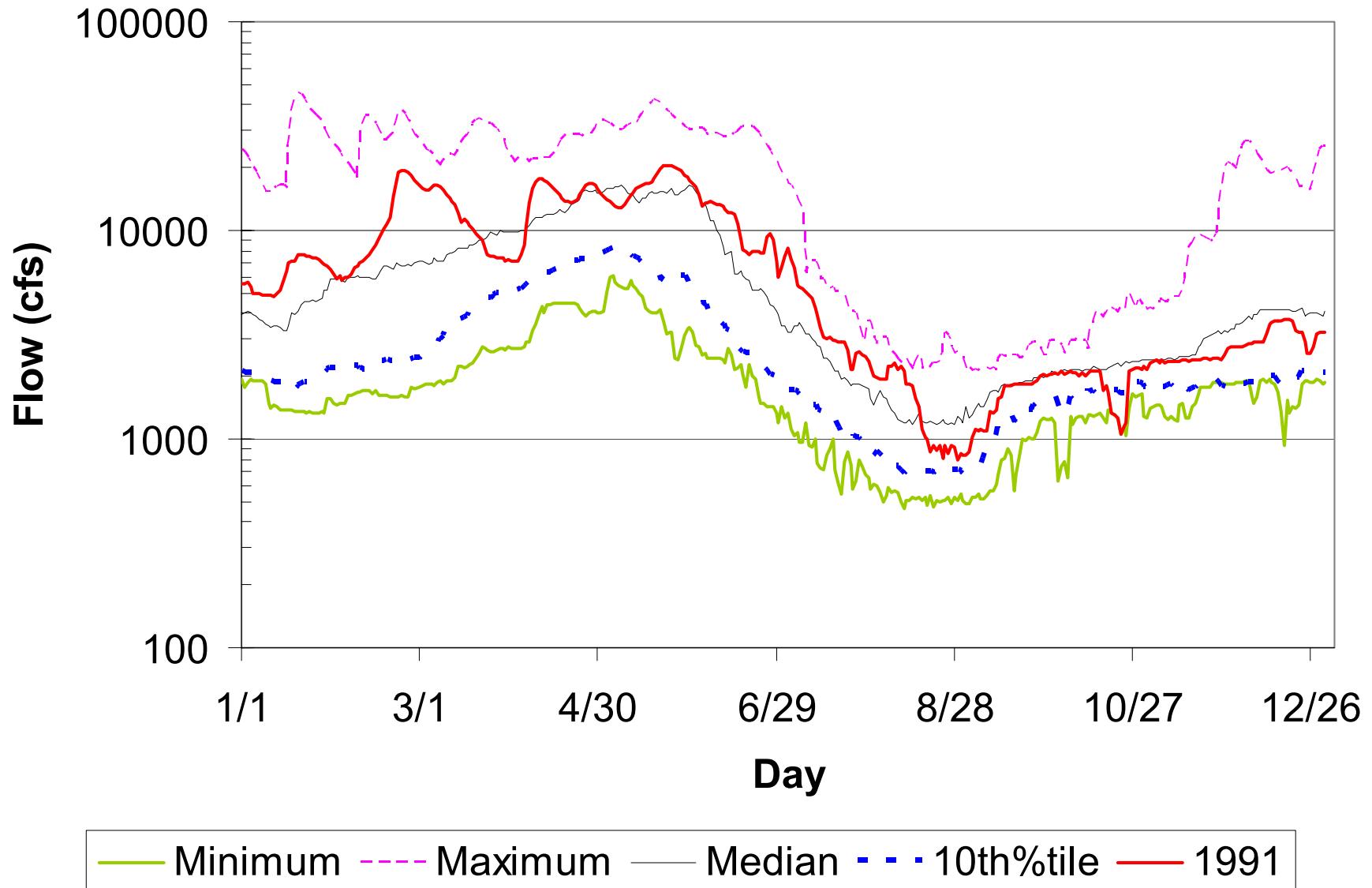
Dissolved Oxygen (mg/L)

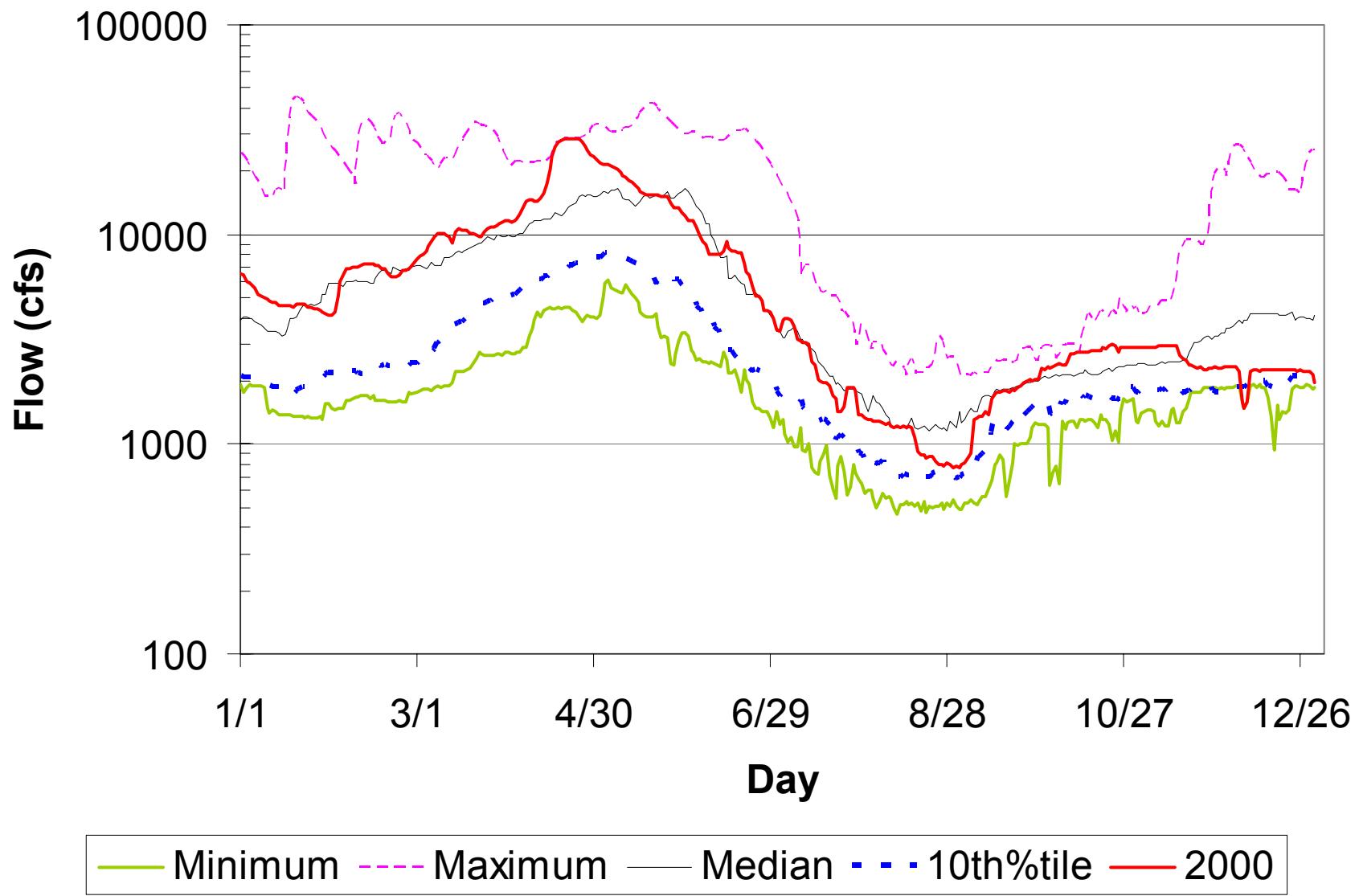


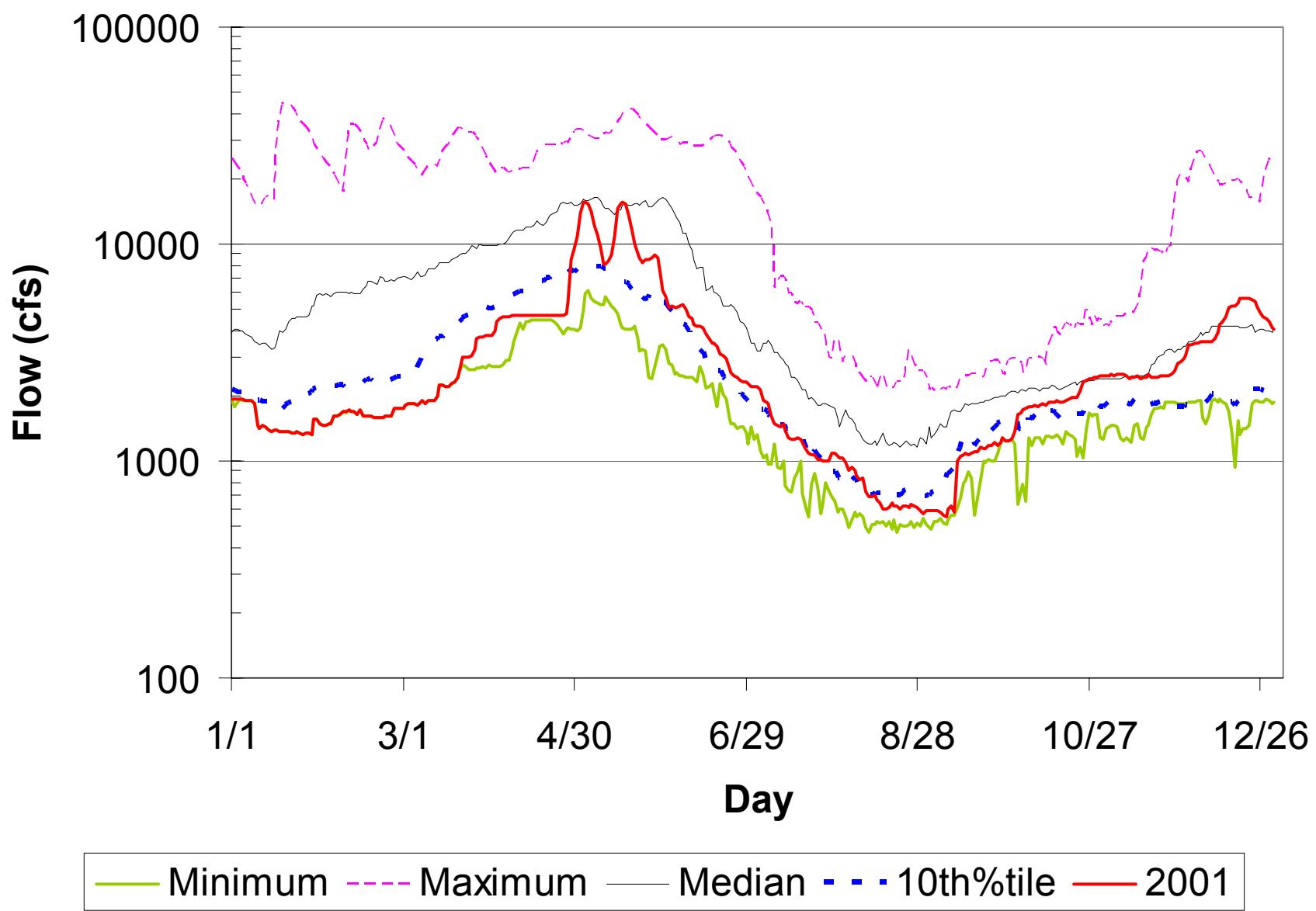
Segment 188, Julian day 243

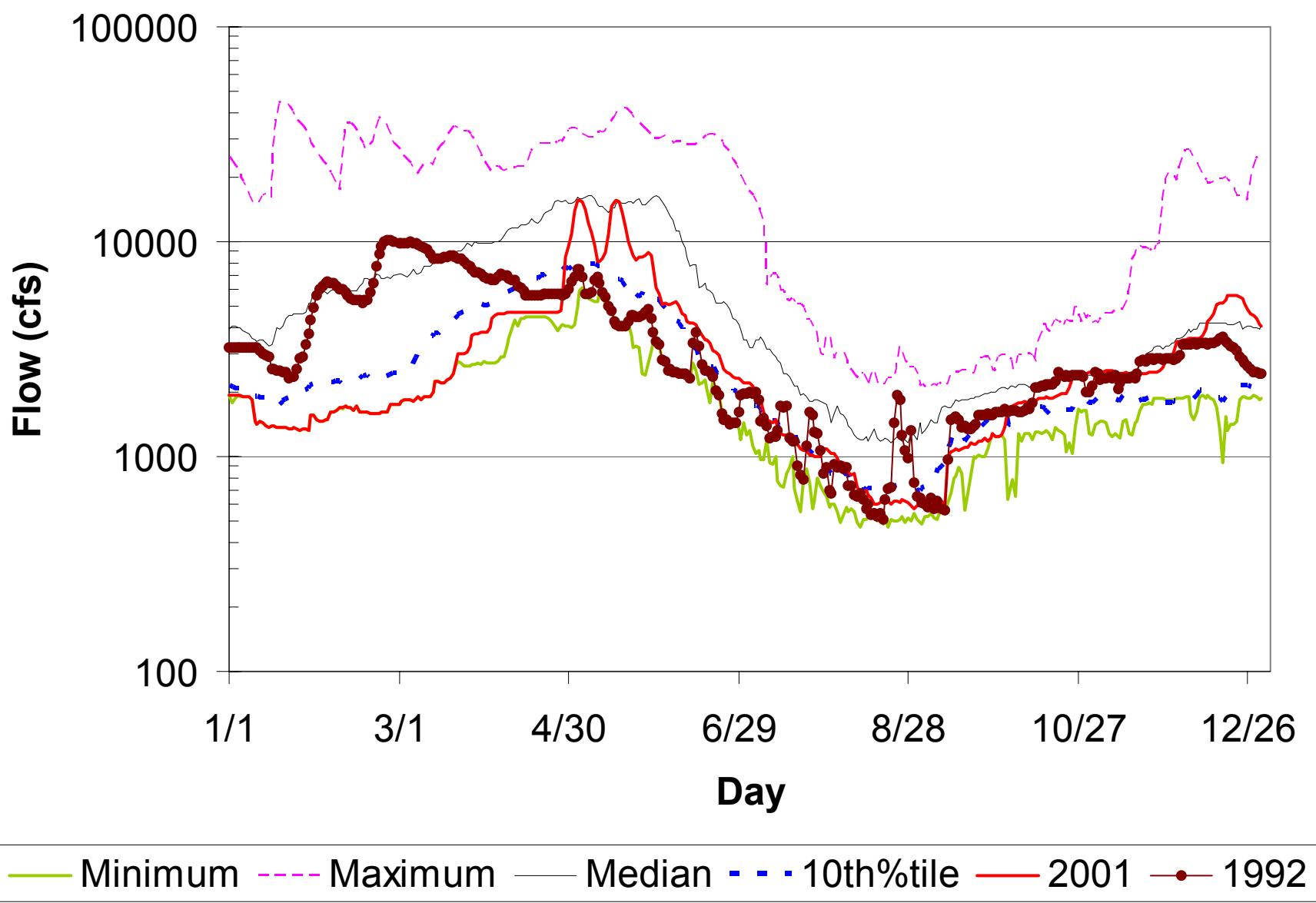


Critical Conditions

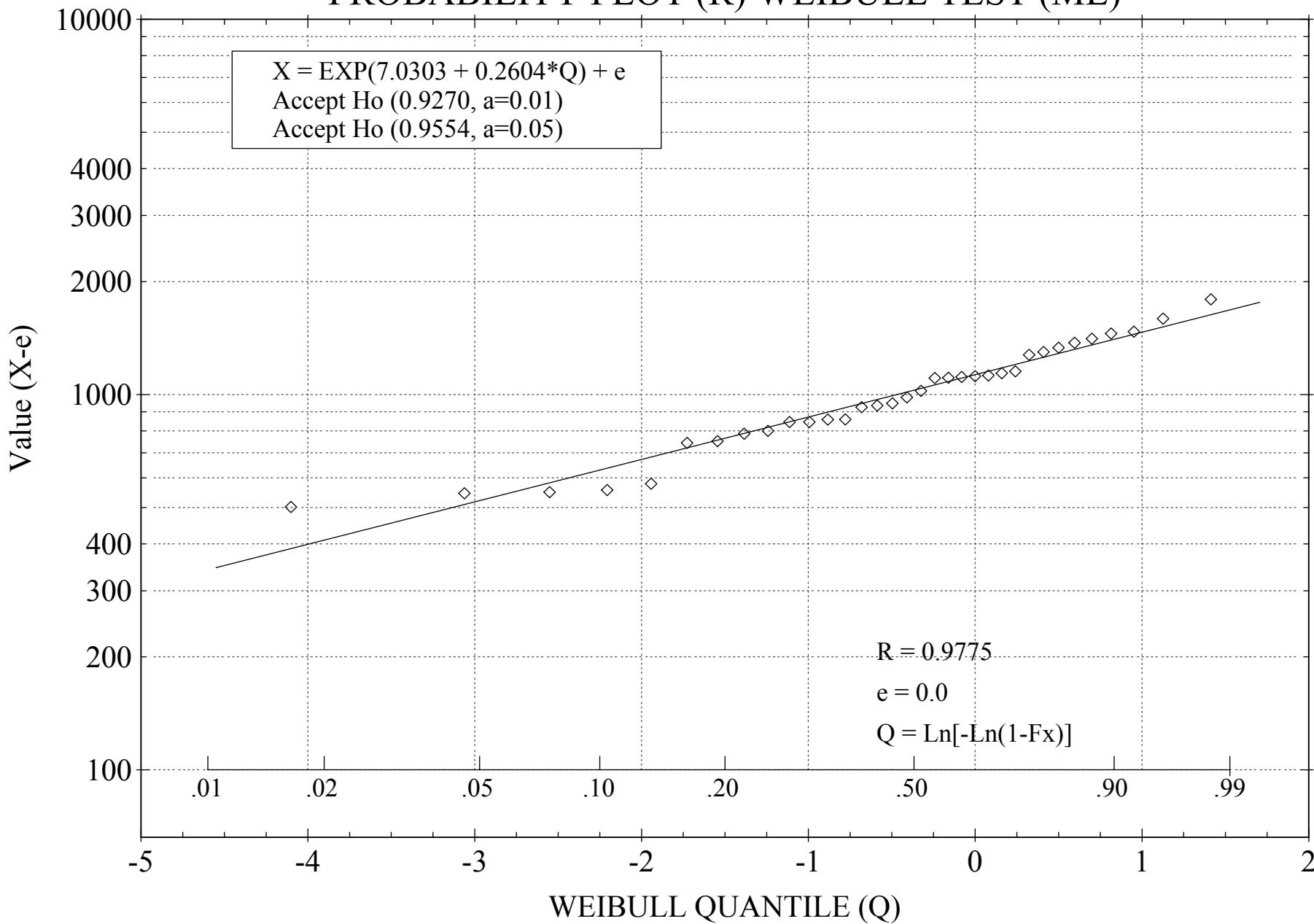






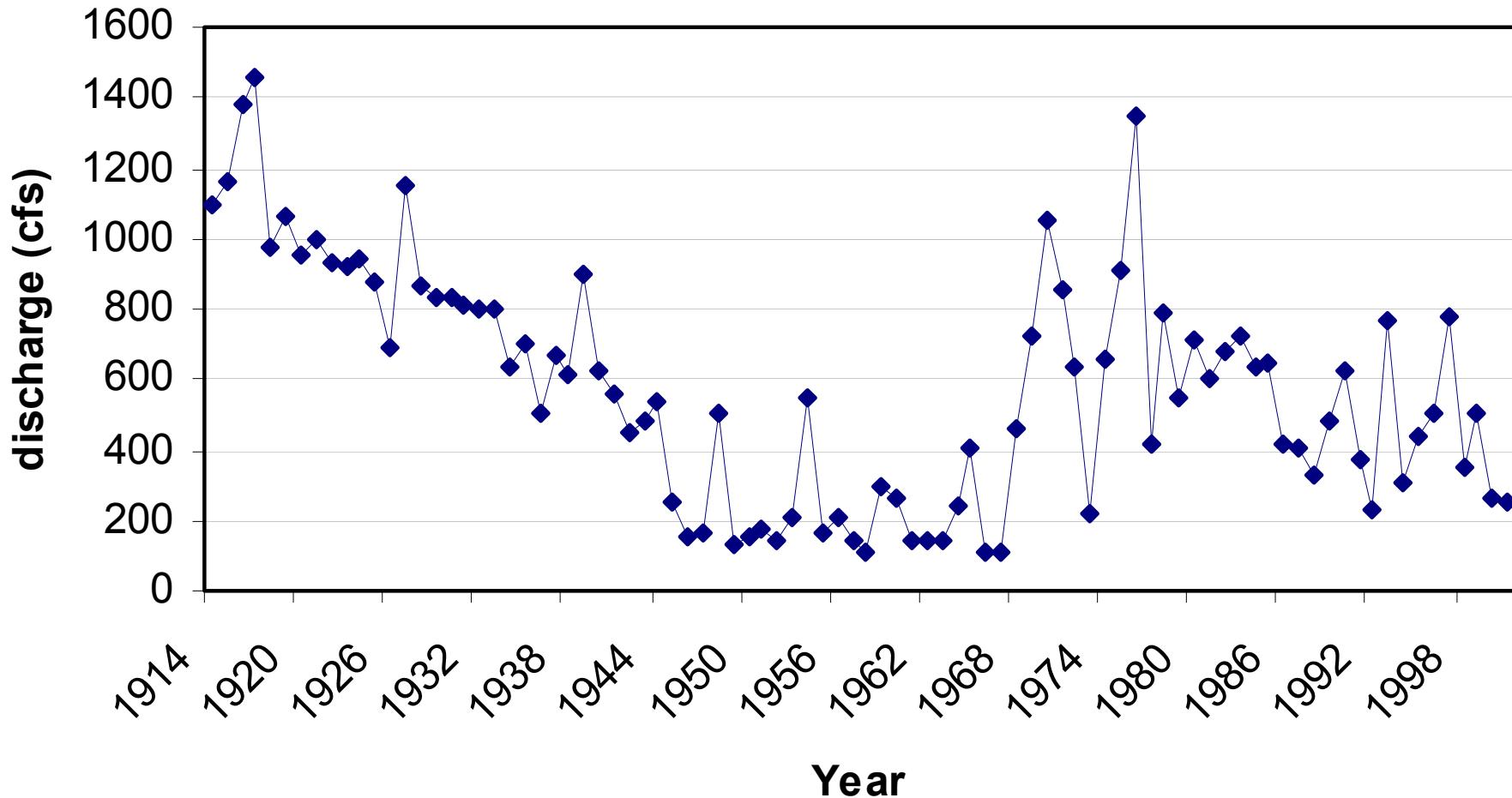


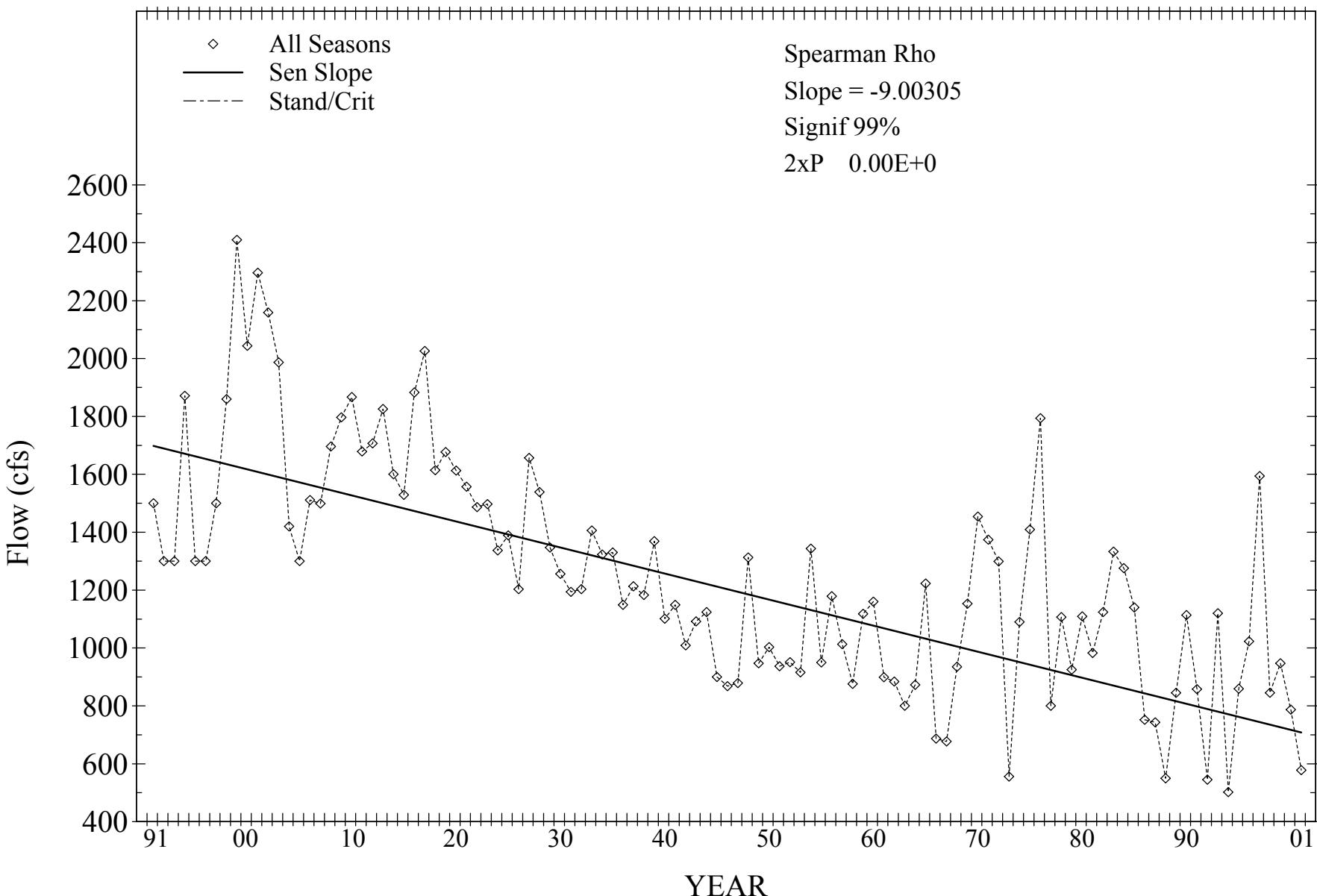
PROBABILITY PLOT (R) WEIBULL TEST (ML)

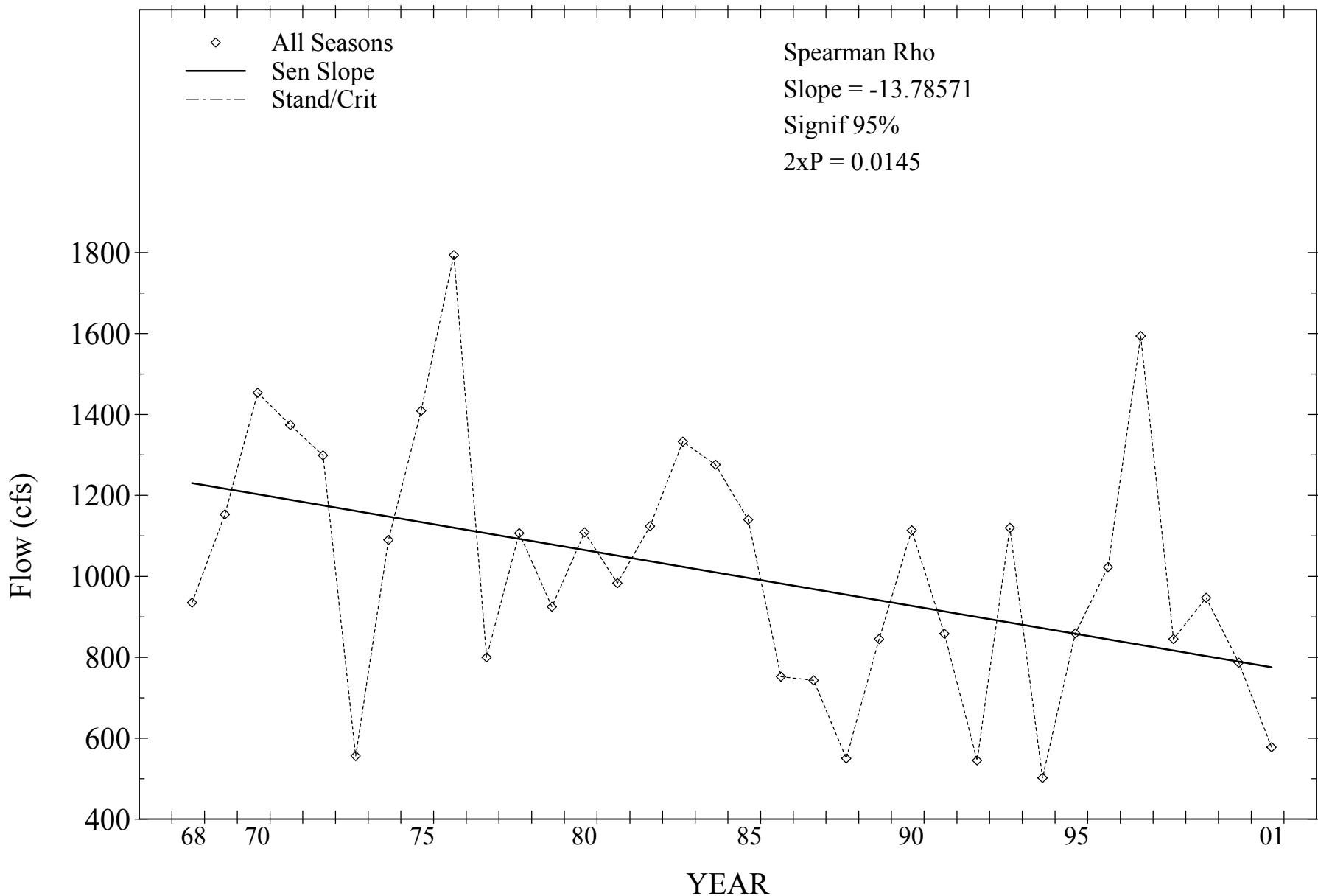


		1973	1977	1987	1988	1992	1994	2001
Jun-Oct	(cfs)	1513	1621	1404	1404	1387	1144	1431
	(%) EXP	89.8	87.2	92.0	92.0	92.4	95.9	91.5
Jul	(cfs)	1167	1233	1371	1481	1318	998	1348
	(%) EXP	90.7	89.7	87.3	85.1	88.3	93.0	87.7
Aug	(cfs)	739	912	828	646	793	530	715
	(%) EXP	91.2	83.3	87.5	94.1	89.1	96.6	92.4
Sep	(cfs)	1517	1576	1341	988	1085	963	916
	(%) EXP	65.3	59.2	80.8	96.6	94.1	97.1	97.9
Apr-May	(cfs)	5759	4681	8614	9961	5571	6827	7221
	(%) EXP	93.6	95.8	83.7	76.7	94.1	90.7	89.4
7-day	(cfs)	556	800	550	743	545	502	578
	(%) EXP	95.8	73.3	96.1	81.2	96.4	98.3	94.4
Average	(%) EXP	87.7	81.4	87.9	87.6	92.4	95.3	92.2
Stdev		11.2	13.2	5.5	7.9	3.1	2.9	3.6

7day low flow at Postfalls







Margin of Safety

$$\text{TMDL} = \text{WLA} + \text{LA} + \text{MOS}$$

Draft Report and Model Scenarios

- 2001 conditions
- No point source loads
- No point or nonpoint source loads
- BOD5 monthly average permit limits
- Oligotrophic SOD
- ?

Model Segment 187

